

Appendix A

MS4 Outfalls

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Outfall Mapping by Hydrologic Area

In assessing potential MS4 sources of pollutants and/or stressors to MS4 discharges and receiving waters, the Responsible Agencies identified major MS4 outfalls and those outfalls known to have persistent discharges. Major MS4 outfalls are defined as 36" or greater in diameter (or equivalent hydraulic capacity) and discharges directly to a receiving water body.

The following maps identify locations of the major MS4 outfalls by each of the hydrologic areas within the Carlsbad Watershed Management Area.

To further the amount and type of data available for analysis in future WQIP planning processes and updates, the Permit prescribes transitional monitoring to be conducted by Responsible Agencies. The timing of the transitional monitoring coincides with the WQIP development and therefore will not be available for the initial WQIP development phase. The transitional monitoring, described in Provision D of the permit, prescribes receiving water as well as outfall monitoring requirements. It is the outfall monitoring under dry and wet weather conditions which will add the most significant data to future assessment and planning processes. The data and information will further Responsible Agencies' understanding of:

- 1) Locations of known MS4 outfalls that persistently discharge non-storm water to receiving waters
- 2) Locations of known MS4 outfalls that discharge pollutants in storm water

Persistent discharge is defined in the permit as "the presence of flowing, pooled, or ponded water more than 72 hours after a measureable rainfall event of 0.1 inch or greater during three consecutive monitoring and/or inspection events. All other flowing, pooled, or ponded water is considered transient."

Figure A-1: Loma Alta Creek HA – Major Outfall Information

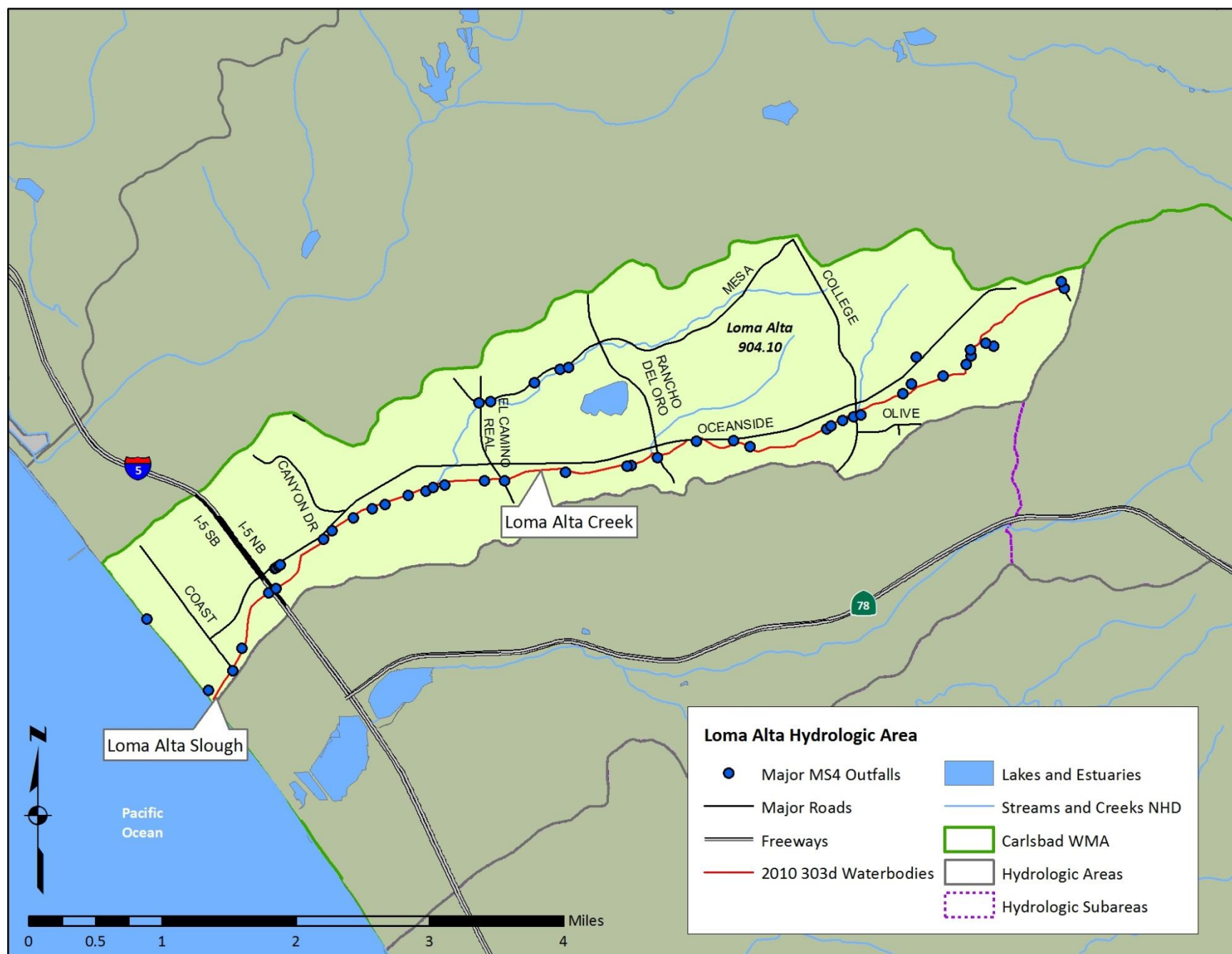


Figure A-2: Buena Vista Creek HA – Major Outfall Information

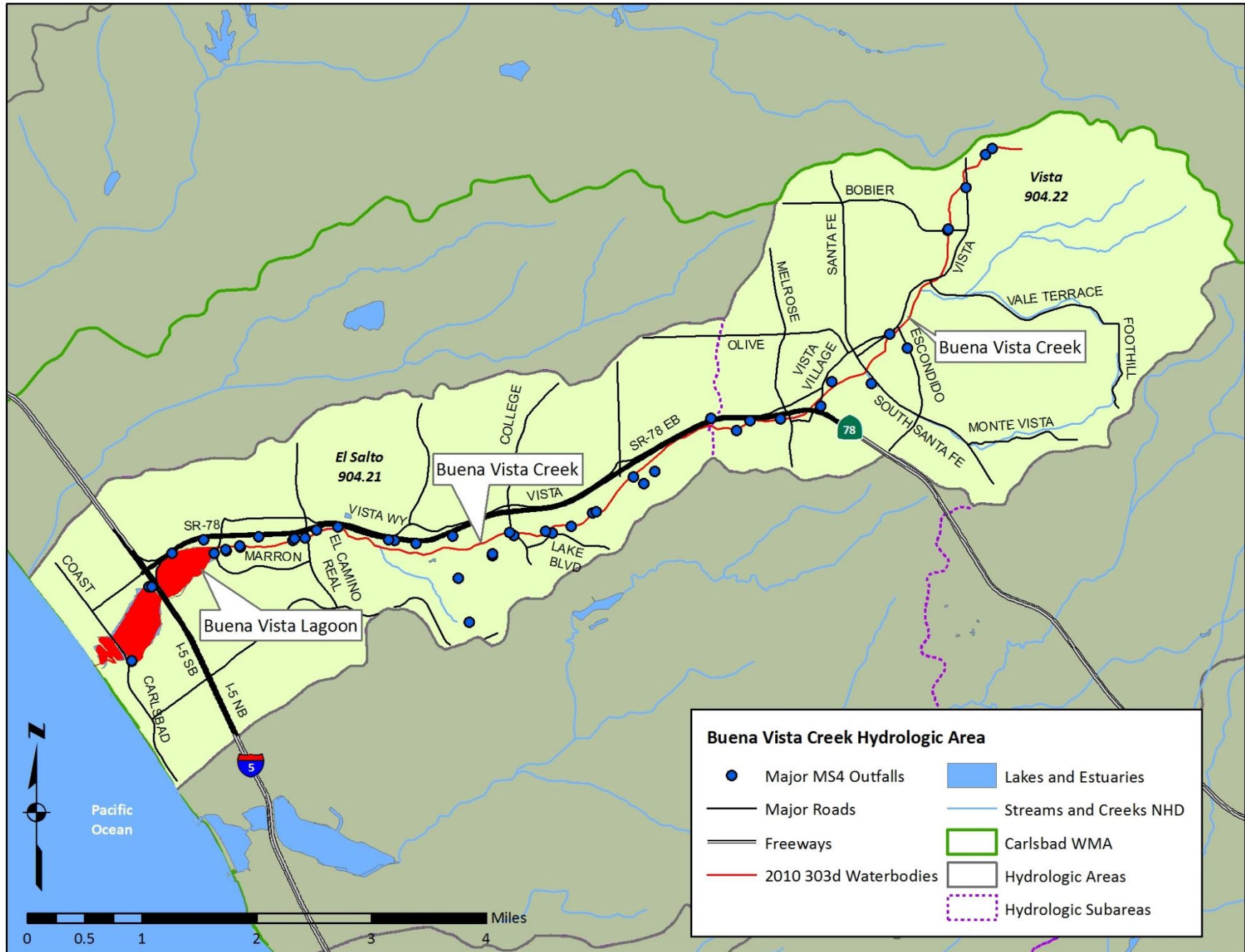


Figure A-3: Agua Hedionda HA – Major Outfall Information

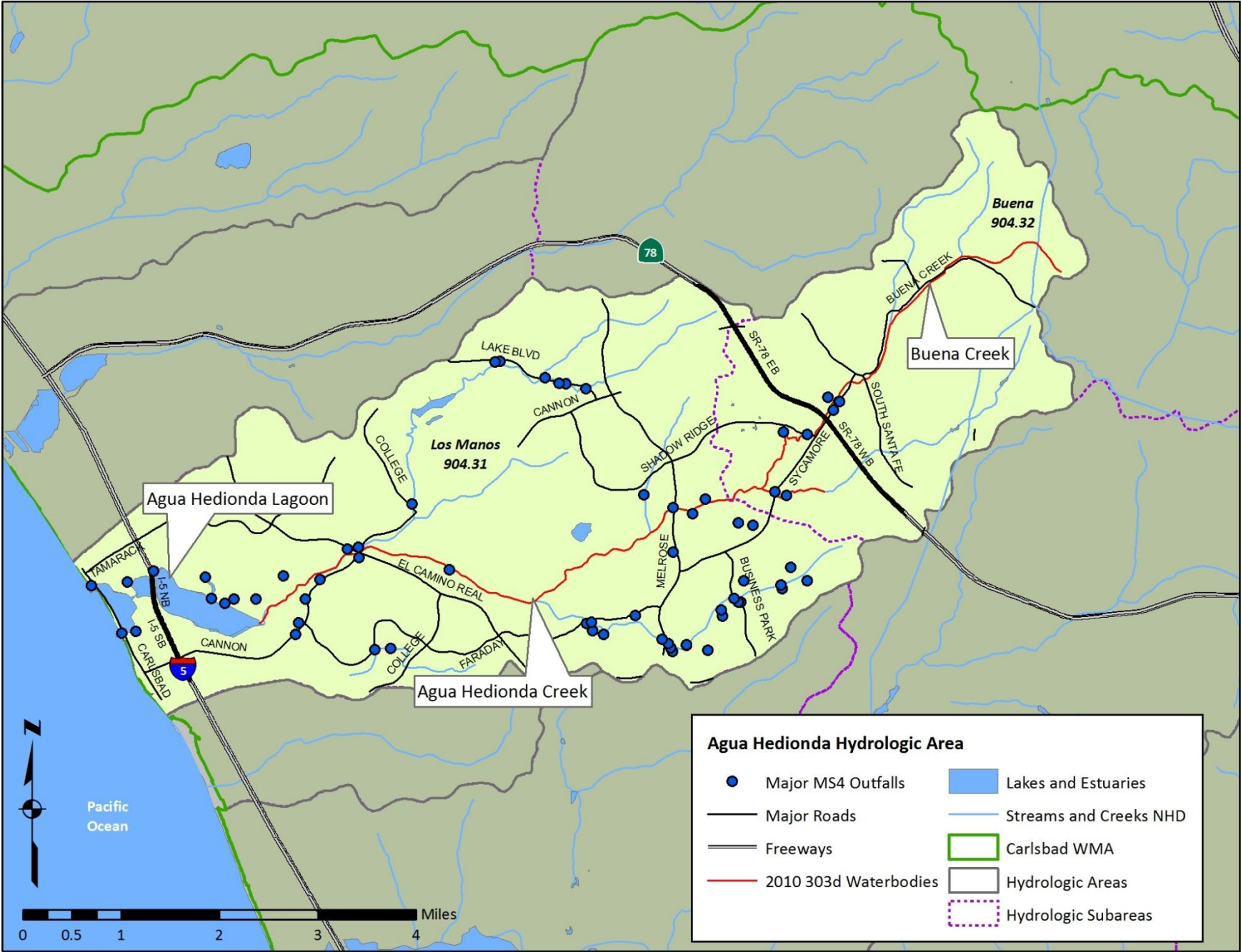


Figure A-4: Encinas HA – Major Outfall Information

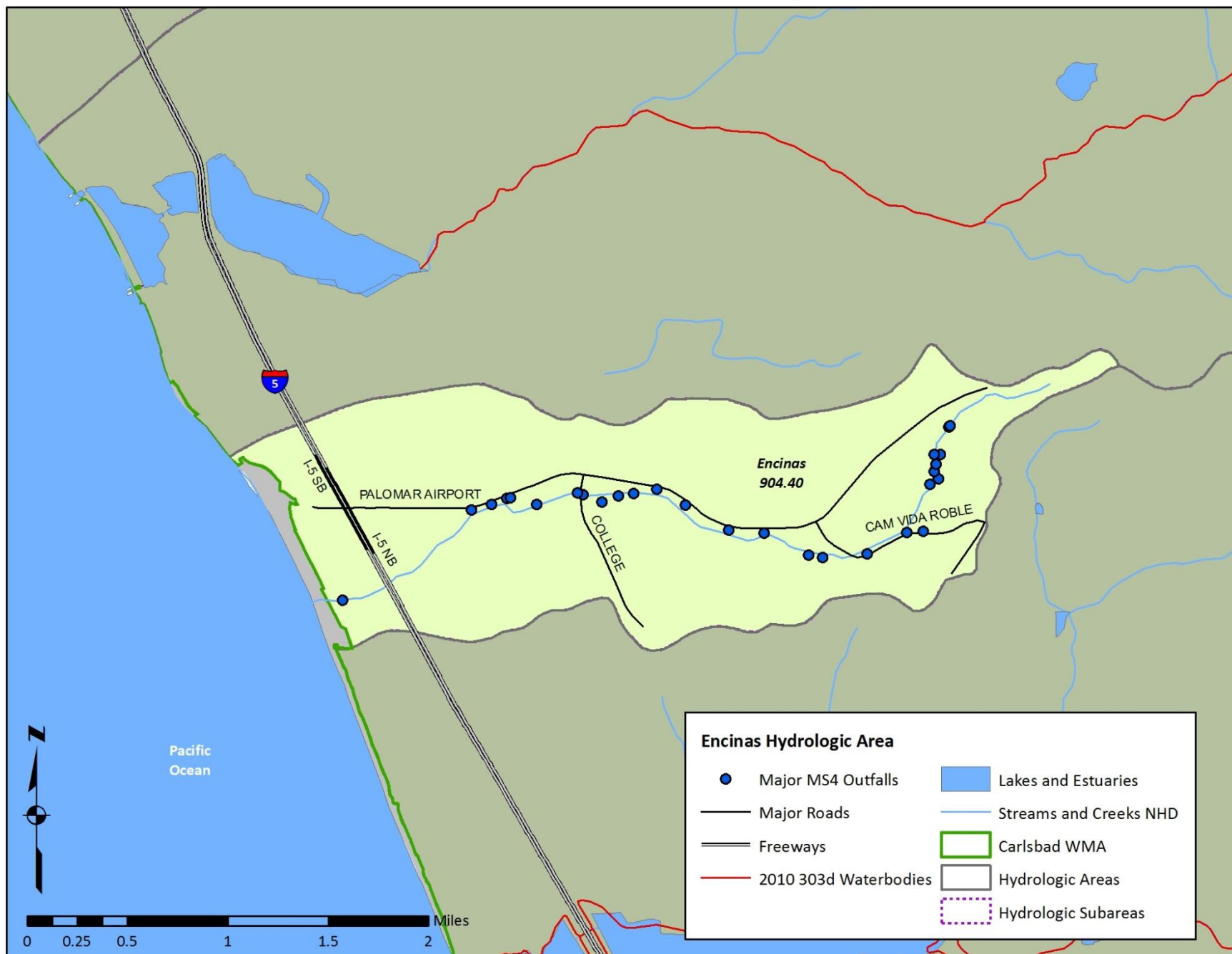


Figure A-5: San Marcos HA – Major Outfall Information

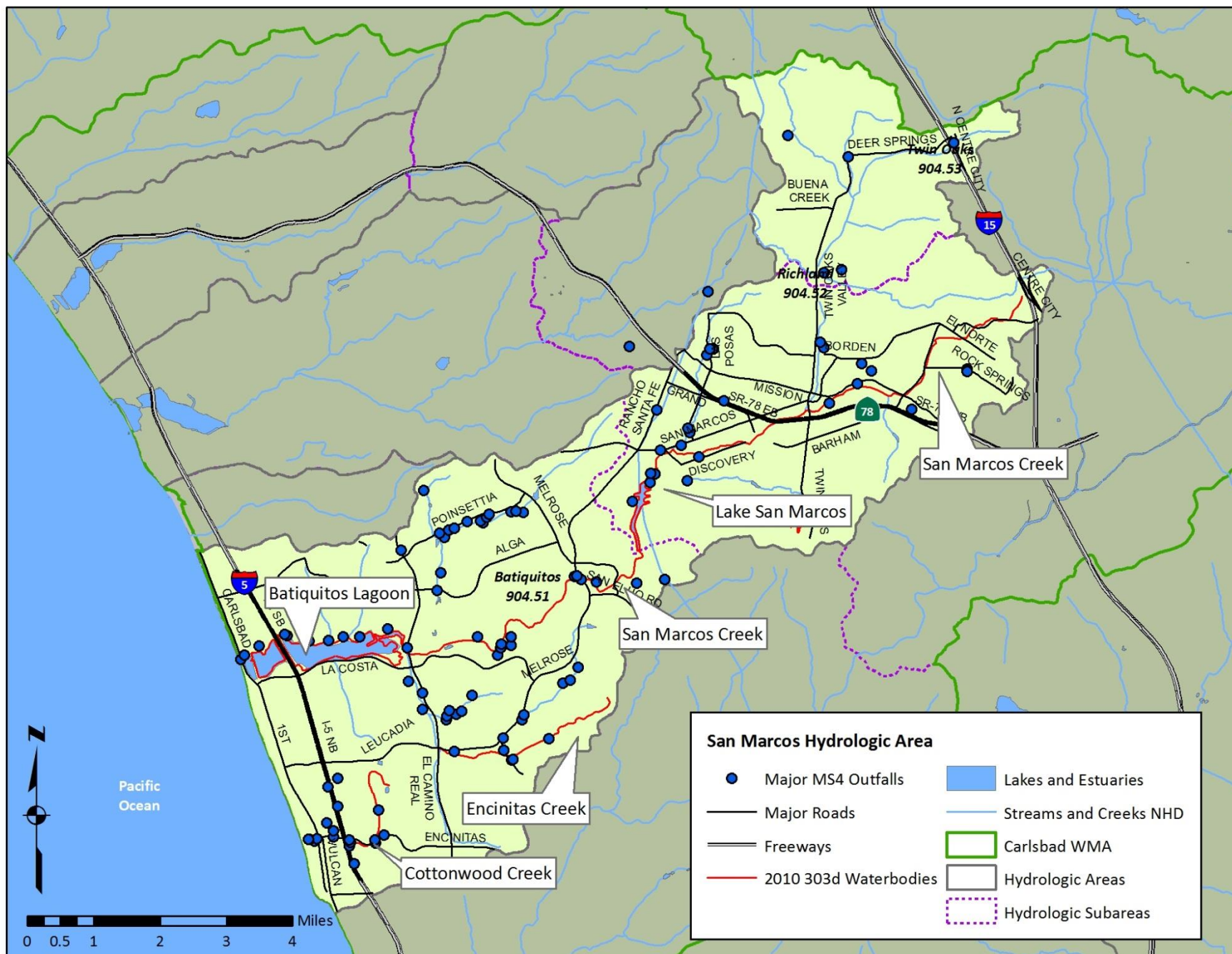
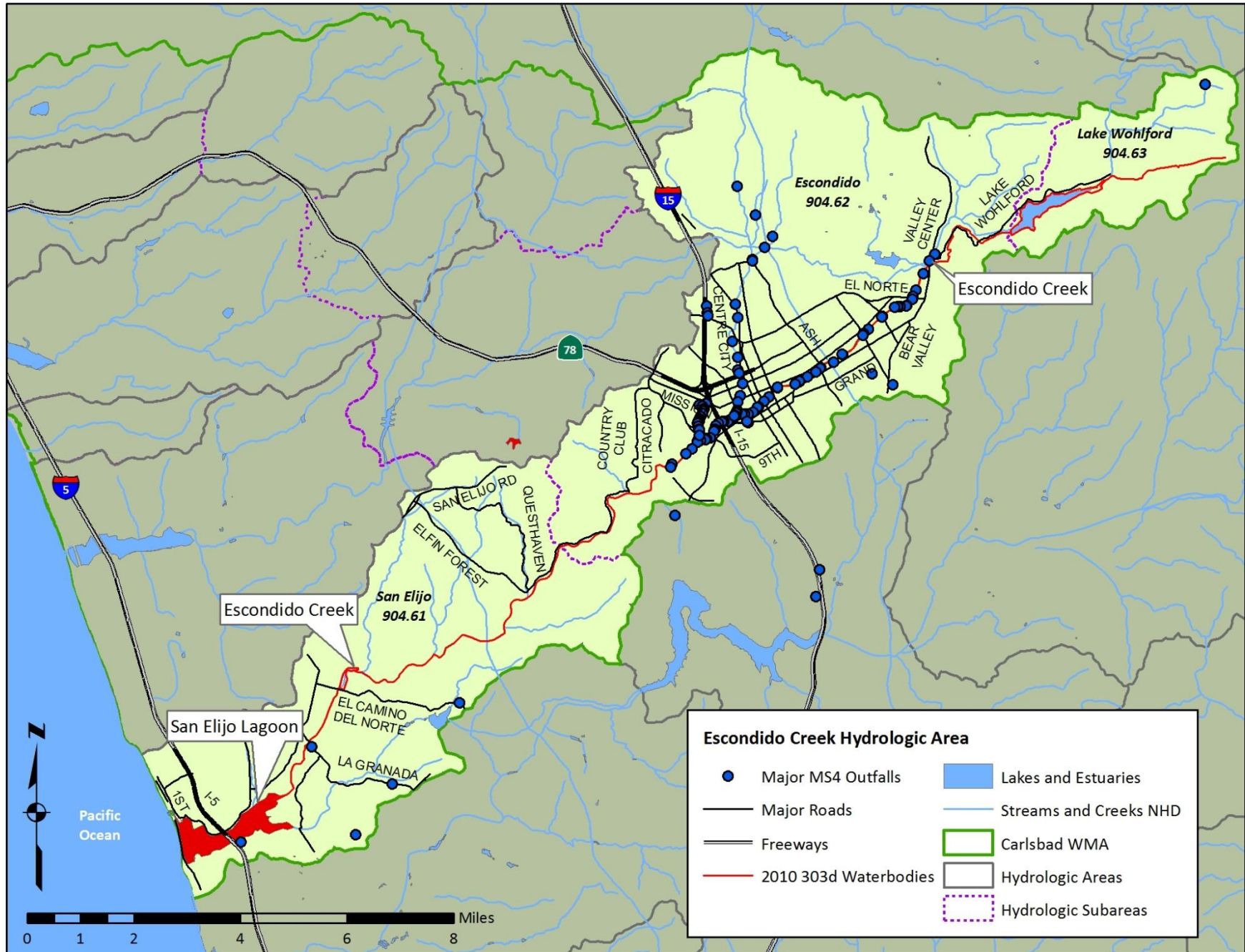


Figure A-6: Escondido Creek HA – Major Outfall Information



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